

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date	Time	Load(MW)
24-Feb-18	18:34hrs	375.23

**Date:** June 18, 2018  
**Hours:** 19:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	137.26	400kV THP - Siliguri Fdr- I	0.00		400kV Tala-Siliguri Fdr-I under breakdown
		Unit- II	138.21	400kV THP - Siliguri Fdr- II	261.01	+	
		Unit- III	138.82	400kV THP - Siliguri Fdr- IV	248.21	+	
		Unit- IV	139.20	400kV THP - Malbase Fdr- III	317.03	+	
		Unit- V	139.34	400kV Malbase - Siliguri	229.64	+	
		Unit- VI	139.59				
		<b>Total</b>	<b>832.42</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>6.17</b>		
2	CHP	Unit- I	91.64	220kV CHP - Birpara Fdr- I	93.33	+	
		Unit- II	91.59	220kV CHP - Birpara Fdr- II	93.15	+	
		Unit- III	91.38	220kV CHP - Malbase Fdr- III	133.94	+	
		Unit- IV	91.85	220kV CHP - Semtokha Fdr- IV	22.24	-	
				220kV Malbase - Birpara Fdr.	49.67	+	
				66kV CHP - Chumdo Fdr.	11.48	+	
				66kV CHP - Gedu Fdr.	8.00	+	
				3x3MVA, 66/11kV TFR	1.22	+	
		<b>Total</b>	<b>366.46</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>3.10</b>		
3	BHP (U/S)	Unit- I	6.32	220kV BHP - Semtokha Fdr.	-0.42	-	
		Unit- II	6.32	66kV BHP - Lobeysa Fdr.	12.32	+	
		<b>Total</b>	<b>12.64</b>	220kV BHP - Tsirang Fdr.	22.66	+	
	BHP (L/S)	Unit- I	10.63	5MVA, 66/11kV TFR	0.63	+	
		Unit- II	11.78	30MVA ICT, 220/66kV			
		<b>Total</b>	<b>22.41</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.14</b>		
4	DHPC	Unit-I	23.99	220kV DHPC - Tsirang Fdr.	47.76	+	
		Unit-II	24.24	220kV DHPC - Jigmeling Fdr.	0.00		
				5MVA, 220/33kV TFR	0.00		
		<b>Total</b>	<b>48.23</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>0.47</b>		
5	KHP	Unit- I	16.50	132kV KHP - Nangkhor Fdr- I	58.19	+	
		Unit-II	16.50	132kV KHP - Kilikhar Fdr- II	7.65	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.28	+	
		Unit- IV	16.50	132kV Gelephu - Salakati Fdr.	23.43	+	
				132kV Motanga - Rangia Fdr.	45.72	+	
				220kV Tsirang - Jigmeling	70.42	+	
		<b>Total</b>	<b>66.00</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>	<b>-0.12</b>		

**Note: Load summary on June 18, 2018 at 19:00hrs.**

Sl. No	Region	Total Generation (MW)	Total Load (Generation - Export, MW)	Total Load (Feeder Summation, MW)	Total Export/Import	Load Balance
1	Western Grid	1,282.16	236.73	227.13	975.01	9.60
2	Eastern Grid	66.00	67.27	67.39	69.15	-0.12
	<b>Total</b>	1,348.16	304.00	294.52	1,044.16	9.48

**Note: Load Summary on June 18, 2017 at 19:00hrs**

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	238.88	248.40	286.43
2	Eastern Grid	53.45	53.45	67.48
	<b>National</b>	<b>292.33</b>	<b>301.85</b>	<b>342.69</b>

**Notes:-**

1. The Instantaneous load balance is calculated as (Total generation - (Total export-Import) - Total domestic load) do not tend towards zero. This could be due to the following reasons:
  - i) Not all the meters are digital and nor are all the meter at all locations can be read at same time (say 9:00hrs) due to many meter to be read manually.
  - ii) The clocks of all the locations are not synchronized
2. This report is generated to give an idea of the generation & load flow for the system at a particular instant.

## LOAD GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date	Time	Load(MW)
24-Feb-18	18:34hrs	375.23

**Date:** June 19, 2018  
**Hours:** 09:00 Hours

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	THP	Unit- I	100.36	400kV THP - Siliguri Fdr- I	0.00	+	400kV Tala-Siliguri Fdr-I under breakdown.
		Unit- II	81.31	400kV THP - Siliguri Fdr- II	237.94	+	
		Unit- III	138.67	400kV THP - Siliguri Fdr- IV	227.06	+	
		Unit- IV	138.75	400kV THP - Malbase Fdr- III	265.13	+	
		Unit- V	137.36	400kV Malbase - Siliguri	214.20	+	
		Unit- VI	139.01				
		<b>Total</b>	<b>735.46</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>5.33</b>	
2	CHP	Unit- I	91.62	220kV CHP - Birpara Fdr- I	95.74	+	
		Unit- II	90.95	220kV CHP - Birpara Fdr- II	95.20	+	
		Unit- III	90.90	220kV CHP - Malbase Fdr- III	153.00	+	
		Unit- IV	91.66	220kV CHP - Semtokha Fdr- IV	0.09	+	
				220kV Malbase - Birpara Fdr.	38.95	+	
				66kV CHP - Chumdo Fdr.	7.85	+	
				66kV CHP - Gedu Fdr.	10.45	+	
				3x3MVA, 66/11kV TFR	0.77	+	
		<b>Total</b>	<b>365.13</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>2.03</b>	
3	BHP (U/S)	Unit- I	5.66	220kV BHP - Semtokha Fdr.	15.50	+	
		Unit- II	5.66	66kV BHP - Lobeysa Fdr.	9.79	+	
		<b>Total</b>	<b>11.32</b>	220kV BHP - Tsirang Fdr.		5.24	
	BHP (L/S)	Unit- I	9.56	5MVA, 66/11kV TFR	0.39	+	
		Unit- II	10.78	30MVA ICT, 220/66kV	0.00		
		<b>Total</b>	<b>20.34</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.74</b>	
4	DHPC	Unit-I	43.04	220kV DHPC - Tsirang Fdr.	42.76	+	
		Unit-II		220kV DHPC - Jigmeling Fdr.			
				5MVA, 220/33kV TFR			
		<b>Total</b>	<b>43.04</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.28</b>	
5	KHP	Unit- I	16.65	132kV KHP - Nangkhor Fdr- I	61.08	+	
		Unit-II	16.65	132kV KHP - Kilikhar Fdr- II	4.57	+	
		Unit- III	16.61	5MVA, 132/11kV TFR	0.25	+	
		Unit- IV	16.62	132kV Gelephu - Salakati Fdr.	25.53	+	
				132kV Motanga - Rangia Fdr.	39.65	+	
				220kV Tsirang - Jigmeling	45.78	+	
		<b>Total</b>	<b>66.53</b>	<b>Error At Station/Auxiliary Consumption/Losses</b>		<b>0.63</b>	

**Note: Load summary on June 19, 2018 at 09:00hrs.**

Sl. No	Region	Total Generation (MW)	Total Load (Generation - Export, MW)	Total Load (Feeder Summation, MW)	Total Export/Import	Load Balance
1	Western Grid	1,175.29	220.42	212.04	909.09	8.38
2	Eastern Grid	66.53	47.13	46.50	65.18	0.63
	<b>Total</b>	1,241.82	267.55	258.54	974.27	9.01

**Note: Load Summary on June 19, 2017 at 09:00hrs**

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	232.97	242.05	286.43
2	Eastern Grid	51.60	51.60	67.48
	<b>National</b>	<b>284.57</b>	<b>293.65</b>	<b>342.69</b>

**Notes:-**

1. The Instantaneous load balance is calculated as (Total generation - (Total export-Import) - Total domestic load) do not tend towards zero. This could be due to the following reasons:
  - i) Not all the meters are digital and nor are all the meter at all locations can be read at same time (say 9:00hrs) due to many meter to be read manually.
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